

### FloArm Top SL1-ST

(Formerly known as MYK INDUFLOOR SL 1(ST))

Solvent free, Epoxy resin-based Self Leveling floor topping



## TECHNICAL DATA SHEET

### Product Description

FloArm Top SL1-ST is a 100 % solid containing free flowing, four component solvent free system in pre-weighed packing for on-site mixing. The finished floor provides a hard wearing, smooth, glossy, joint free, impervious and easy to clean treated surface. Additionally, it has mild chemical and alkali resistance. The system thickness is approx 1 mm.

FloArm Top SL1-ST is a blend of epoxy resin system available in various colors. It is designed for use in a wide range of industrial environments where durable, joint free, low maintenance flooring is required.

#### Uses

- Engineering & Auto industries
- Clean rooms, Laboratories & Hospitals
- Electronic Handling & Manufacturing unit
- Pharmaceutical – Bulk and Formulation
- Computer assembly units
- IT and other Commercial Buildings
- Explosive industries or Flammable material storage areas

#### Features and Benefits

- Durable, provides a hard, impact and abrasion resistant floor topping
- Good resistance to wide range of chemicals
- Hygienic seamless floor which is easy to clean
- Available in wide range of colors
- Quick and Easy to apply
- Decreased Friction and static charge formation
- Does not support growth of bacteria and fungus
- Impervious

### Application Methodology

#### Step no.1: Surface Preparation

The concrete substrate must be sound and of sufficient compressive strength (minimum 20 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>. The substrate must be level, clean, dry and free of all contaminants such as dirt, oil, grease etc. All previous floor coating if any must be mechanically removed to the maximum extent possible. It is acceptable to re-lay on floor coating that has a firm bond (pull out strength of 1.5 N/mm<sup>2</sup>).

Concrete substrates must be prepared mechanically depending upon surface condition using abrasive blast cleaning or scarifying or grinding to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed. Repairs (blow holes/voids and surface leveling) to the substrate must be carried out using appropriate repair product. The concrete or screed substrate has to be primed or leveled in order to achieve an even surface. All dust, loose and friable material must be completely removed from surfaces before application of the product, preferably by brush and/or vacuum.

Ensure moisture content of the concrete surface below 4% - no rising moisture according to ASTM D 4263 (Polythene Sheet Method) and above 3°C dew point.

#### Step no.2: Priming

The concrete surface after proper and thorough surface preparation has to be primed with appropriate primer (FloArm Primer 1260 or 1290). The primer is a solvent free resin system. It is designed for better adhesion with the substrate and the flooring system. The primer should be mixed in the given proportions supplied. The entire contents of the hardener should be poured into the base and should be mixed using a low speed drill machine with an attachment for about 3 minutes @ (150-200 RPM) to get a homogeneous mix. Once mixed, the primer should be applied immediately on to the prepared concrete surface. After priming, the surface has to be kept for drying - approximately 8-12 hrs. For more information refer Primer TDS. Depending on the ambient temperature, application of FloArm Top SL1-ST can be undertaken.

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### Priming for Damp Concrete/Rising moisture:

Normal priming is limited to application below 4% surface moisture in concrete. If the moisture content is > 4%, use special primers FloArm Primer 1250 or moisture barrier underlays i.e., Cempo® series of products.

### Step no. 3: Product Mixing

The pre-weighed packs of the components - resin, hardener, filler and pigment has to be mixed for 2 to 3 minutes using a low speed electric stirrer (300 -400 rpm) with a spiral shaped stirrer in a suitably sized mixing vessel.

The pigment should be added to the base and should be stirred for 30seconds till proper dispersion of pigment paste in base happens. The hardener is then added to the base and mixed for about 3 to 4 minutes slowly until an even color, texture is obtained. Add the filler slowly into the mixing container, ensure stirring while pouring. Mix for another 2 – 3 mins till the product is homogeneous.

Important: Do not dump the powder component all at once. Mix till the material is completely homogeneous. We are not recommending part mixing.

### Step no.4: Product application

The material once mixed should be used within its specified pot life; the material is poured on to the primed surface and spread evenly to the required thickness with a 2mm 'V' notched steel trowel. Care should be taken not to over work the resin. After spreading, the wet epoxy should be firmly rolled with a spiked nylon roller to help release any entrapped air in the material and assist leveling and removing any tool marks. The rolling should be carried out using a 'back and forth' technique along the same path. An overlap of 50% with adjacent paths is recommended.

Ideal application temperature should be between 23°C to 30°C. Please consult MYK Arment Engineer if the temperatures are different than specified.

### Note:

The above information is as per controlled conditions & theoretical. It is recommended to do a field trial prior to large scale application.

Consult the Technical Services team of MYK Arment for product specification or guidance.



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### Technical Data

Mixed Density:	Approx. 1.65 gm/cc
Shore D hardness After 7 Days at 30°C (ASTM D 2240)	70 - 80
Pot Life	Approx. 15 Mins @ 30°C Approx. 45 Mins @ 20°C
Foot Traffic (ASTM C 722)	24 Hours @ 30°C 48 Hours @ 25°C
Vehicular traffic (ASTM C 722)	72 Hrs. @ 30°C
Abrasion Resistance (ASTM D4060)	H18: 0.35 mm loss
Chemical Resistance: (ASTM C 722 spot)	7 Days @ 30°C
Full Cure (ASTM C 722)	7 days @ 30°C
Compressive strength After 14 days (IS 9162)	> 60N/mm <sup>2</sup> @ 30°C
Flexural Strength After 14 days (IS 9162)	>30 N/mm <sup>2</sup> @ 30°C
Tensile Strength After 14 days (IS 9162)	>16 N/mm <sup>2</sup> @ 30°C
Bond strength @ 7 days at +27°C (ASTM D4541-95)	1.5 N/mm <sup>2</sup> , concrete failure
Thermal Resistance - Permanent	+50°C

Physical Properties on clean surface Humidity @ 50% , Temp 30 Deg C	
Gloss at 60 Deg, 1 Day (ASTM D 2457)	85
Skid Resistance on a clean dry surface (ASTM E303)	50

## Flooring & Coatings

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### Consumption

17m<sup>2</sup> @ 1mm thickness for a pack of 28.5 kgs.  
Recommended consumption may vary as per the surface conditions.

#### Note:

The given information is as per controlled conditions. It is recommended to do a field trial to ascertain actual consumption and methodology prior to large scale application.

Consult the MYK Arment Technical Services team for product specification or any other guidance.

### Packaging

28.5 kgs composite pack.

### Storage and Shelf Life

12 months from date of production if stored properly in cool dry place under shaded area, away from any extreme temperature or direct sunlight.

### Health & Safety

During mixing and application the following precautions should be observed: Ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream. In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water. Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to resin-based materials. Always wear gloves and eye/face protection as necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

### Product Categories Available



### Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application & purpose. MYK Arment reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.

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